

# ENCAPSULATED MEDICAL IMAGING DEVICE AND METHOD

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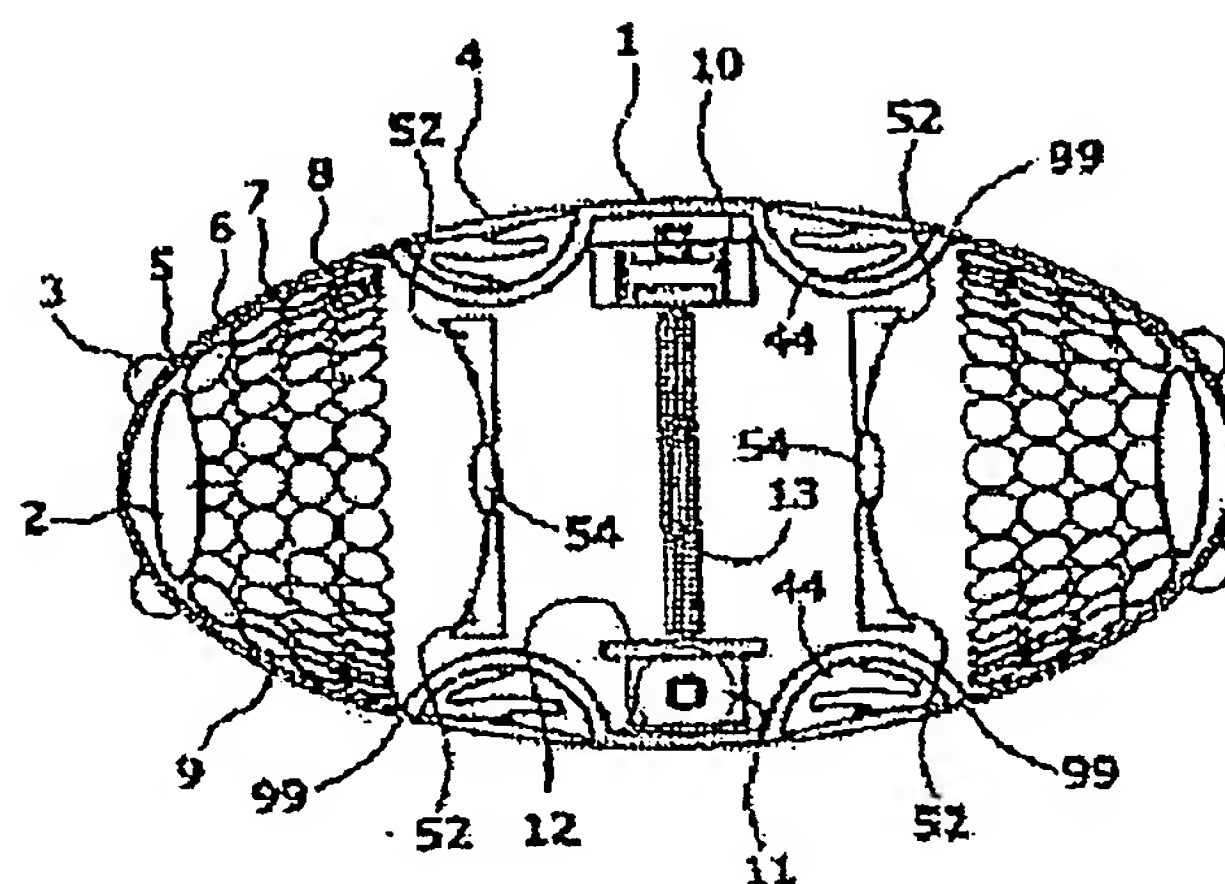
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Abstract not available for JP2003526413T

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An encapsulated medical imaging system is disclosed, comprising: a capsule of swallowable proportion comprising at least one optical setup of a number of optical setups comprising an array of microlenses distributed in axial symmetry on at least a portion of the capsule so that the array of microlenses is capable of receiving light reflected from object located in at least a sector outside the capsule; corresponding optical array comprising an array of light sensitive cells optically communicating with said optical setup through focusing means, such that the image of the object is focused on the array of light sensitive cells; electronic circuitry adapted to sample image data obtained by the optical array by scanning the image and converting the image data to digital data; illuminating means for illuminating a sector in front the optical setup, outside the capsule; transmitting means communicating with said electronic circuitry, adapted to receive image digital data and transmit it to an external receiver, receiving means for receiving data transmitted from said capsule; image processing means for processing the data received by the receiving means and; and display means for displaying an image.



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